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## 3212-01-WO

## What is claimed is

- 5 1. A non-newtonian jelly composition suitable for use in optical fiber cable manufacture comprising:
  - a. a synthetic oil of lubricating viscosity,
  - b. a fumed silica,
  - c. an antioxidant, and
- d. a coupling agent.
  - 2. The composition of claim 1 wherein the fumed silica is hydrophobic or hydrophilic.
  - 3. The composition of claim 1 wherein the fumed silica is hydrophilic and the composition is substantially free of hydrophobic silica,
  - 4. The composition of claim 1 wherein the fumed silica has an average primary particle size raging from 5-30 nm.
  - 5. The composition of claim 1 wherein the fumed silica has an average specific BET surface of 150-400 m<sup>2</sup>/g.
  - 6. The lubricating composition of claim 1 wherein the fumed silica is present from 1 to 10% by weight.
    - 7. The composition of claim 1 wherein the fumed silica is present from 2-6% by weight.
    - 8. The composition of claim 1 wherein the preferred synthetic oil is chosen from a group of polydecenes, polyisoprenes, polyisobutenes, polybutenes
    - 9. The composition of claim 1 wherein the synthetic oil comprises at least 85% of the composition by weight.
    - 10. The composition of claim 1 wherein the synthetic oil is a mixture of at least two oils chosen from the group of polydecenes and polybutenes.
    - 11. The composition of claim 1 wherein the coupling agent is a chemical with at least one hydrogen bonding site.
      - 12. The composition of claim 1 wherein the coupling agent is a polyglycol.

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- 13. The composition of claim 12 wherein the polyglycol has a number average MW of at least 1000.
  - 14. The composition on claim 1 comprising an antioxidant
- 15. The lubricant composition of claim 1 wherein the antioxidant is a hindered phenol antioxidant.
  - 16. The lubricant composition of claim 16 wherein the antioxidant is present from 0.1 to 2% by weight.
  - 17. The composition of claim 1 wherein the synthetic oils are a mixture of polydecene and polybutene, the silica is hydrophilic and the coupling agent is a polyglycol.
  - 18. The composition of claim 19 where the polybutene has a number average MW of less than 2000.
  - 19. The composition of claim 19 wherein the preferred amount of polybutene used is at least 40% by weight of the total formulation.
- 20. The composition of claim 19 wherein the polyglycol has a number average molecular weight of 2000.
  - 21. The composition of claim 19 where the preferred composition comprises a mixture of polydecene and polybutene in a ratio of 1:1
  - 22. The composition of claim 19 wherein the preferred composition comprises a hydrophilic silica with a surface area of at least  $150 \text{ m}^2/\text{g}$
  - 23. The composition of claim 19 wherein the hydrophilic silica has a surface area of greater that  $250 \text{ m}^2/\text{g}$
  - 24. The composition of claim 19 wherein the mixture of synthetic oils comprises polydecenes and polybutenes
- 25 25. The composition of claim 19 wherein the coupling agent comprises at least 0.3% of the formulation
  - 26. The composition of claim 19 which optionally comprises an antioxidant.
  - 27. The composition of claim 28 wherein the antioxidant is a hindered phenol
- 30 28. The composition of claim 28 wherein the antioxidant is an amine
  - 29. The composition of claim 28 wherein the antioxidant is selected from a group of antioxidants comprising phenolic and amine antioxidants.

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- 30. The composition of claim 1 wherein the preferred composition comprises a blend of synthetic oils and a blend of fumed silicas.
- 31. The composition of claim 30 wherein the blend of silicas comprises hydrophobic and hydrophilic silicas.
- 32. The composition of claim 1 optionally comprising a high molecular weight polymer.
  - 33. The composition of claim 1 wherein the high molecular weight polymer is a styrene butadiene polymer.